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General Services Office
Printing and Reproduction Division

1. OTHER PROGRAMS

a. Offset Lithographic Reproduction

- (1) Program - Operation of the lithographic camera. Processing lithographic films. Methods of control by exposure, development, and reduction of images. Comparison of various orthochromatic and panchromatic lithographic films. Color filters and their uses in photographic colors in original copy. Halftone theory and practice with the contact halftone screen and with optical screens. Control of contrast by multiple exposures and the use of halftone filters. Drop-out reproductions, flashing, and halftone dot control. Offset stripping, tools, techniques, and trade practice. Surprinting, mask printing, step-over, and methods of registering. Simple chemistry and practice in making zinc plates. Function and operation of the offset press. Printing, papers, inks, fountain solutions, humidity. Analysis and correction of offset process troubles.
- (2) Training Objective - To provide technical competence in Offset Lithographic Reproduction. Comparable to course Number 8-36, Department of Agriculture Graduate School.

b. Color Photography

- (1) Program - The making of still and table top color pictures from the start to the finished picture, with demonstrations and practice in lighting and the use of a view camera. The printing is designed to cover in detail the use of the color Printon-method. Instruction and laboratory work in the characteristics and processing of Printon: masking techniques; and color balance control. Lectures and supervised laboratory work along with "shooting" 4 x 5 color transparencies.
- (2) Training Objective - To provide technical competence in Camera and Printing Techniques for Color Photography. Comparable to course Number 8-271, Department of Agriculture Graduate School.

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Printing and Reproduction Division (Continued)

c. Linotype Maintenance and Operation

- (1) Program - Hand composition, knowledge of type case layout, operation of power saw, use of mitering attachments, copy and proofreading marks, ability to organize format and assemble a complete page from raw type; operation of linotype machine, basic knowledge of linotype mechanism and operation, keyboard layout, effective use of various commercial symbols and diacritics, alignment of characters and accuracy with speed in machine operation; stoneman skills such as preparing layout dummy to obtain correct page imposition with a minimum of adjustments prior to locking chase.
- (2) Training Objective - To provide technical competence in the operation and maintenance of linotype machines. Specialized course of 2 months at the plant school of the Mergenthaler Linotype Co., Brooklyn, New York.

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